



Port of Long Beach Air Quality Improvement Program

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Sources and Challenges



Port Air Quality Improvement Program

- Achieve long term reductions in diesel emissions
- Reductions from Port and tenant-owned equipment, trains, and vessels
- Encourage operational changes to reduce emissions
- Promote alternative fuel and equipment changes to reduce emissions



Why do we need a program?

- South Coast Basin non-attainment area
- Mates II Air Toxics cited Port region as higher cancer risk due to diesel
- Politicians have made AQ an issue
- It makes sense for the health of all



Regulatory Burdens

- Existing Regulations
- Future Regulations
 - CARB Diesel Risk Reduction Plan
 - Proposed SCAQMD Rule 1198
 - Will future regulation invalidate improvements made today?



Improved Efficiency

- Port infrastructure to improve efficiency (e.g. grade seps, on-dock rail)
- In-terminal queuing and AB 2650
- Apply advanced information technology (appointments, traffic management, etc.)
- Support and promote use of Alameda Corridor



Port Emissions Inventory

- Port is conducting a comprehensive Port Emissions Inventory so future regulation can be based on data rather than guesses
- Emissions Inventory is coordinated with POLA, CARB, SCAQMD, and EPA
- Final Report expected in January



Alt Fuels/Clean Diesel

- Port/Gateways Cities clean diesel and truck replacement program
- Replacement and conversion of Port-owned automobiles and equipment
- Port pilot LNG project on tenant terminal
- PHL locomotive retrofit or re-power
- Tariff #4 to require tenant facility plan for reductions from baseline inventory and plan for future equipment purchases.



Clean Diesel Technologies



Diesel Oxidation
Catalysts

Emulsified
Diesel



POLB DERP Program



- Over 590 DOCs have been ordered
- 285 DOCs have been installed to date

DOC Installation at LBCT



Cold-Ironing Feasibility Study

- Investigate technical and logistical feasibility of cold-ironing
- Examine different cargo vessels (i.e. container, dry-bulk, passenger, etc.)
- Report due end of the year



Port Funding Issues



- Sale of RECLAIM Credits - \$700,000 in proceeds
- CARB Mitigation funding available for repower projects and verified retrofit projects



What is the POLB Funding?

- Alternative Fuels
- Clean Diesel/
Emulsions
- Retrofits
- Other cost-effective,
emission-reducing
technologies

